

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P199242

Luminaire Tested: **XNV-AF-01-LED-U-T2R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24459)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-T2R-8030-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3408 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

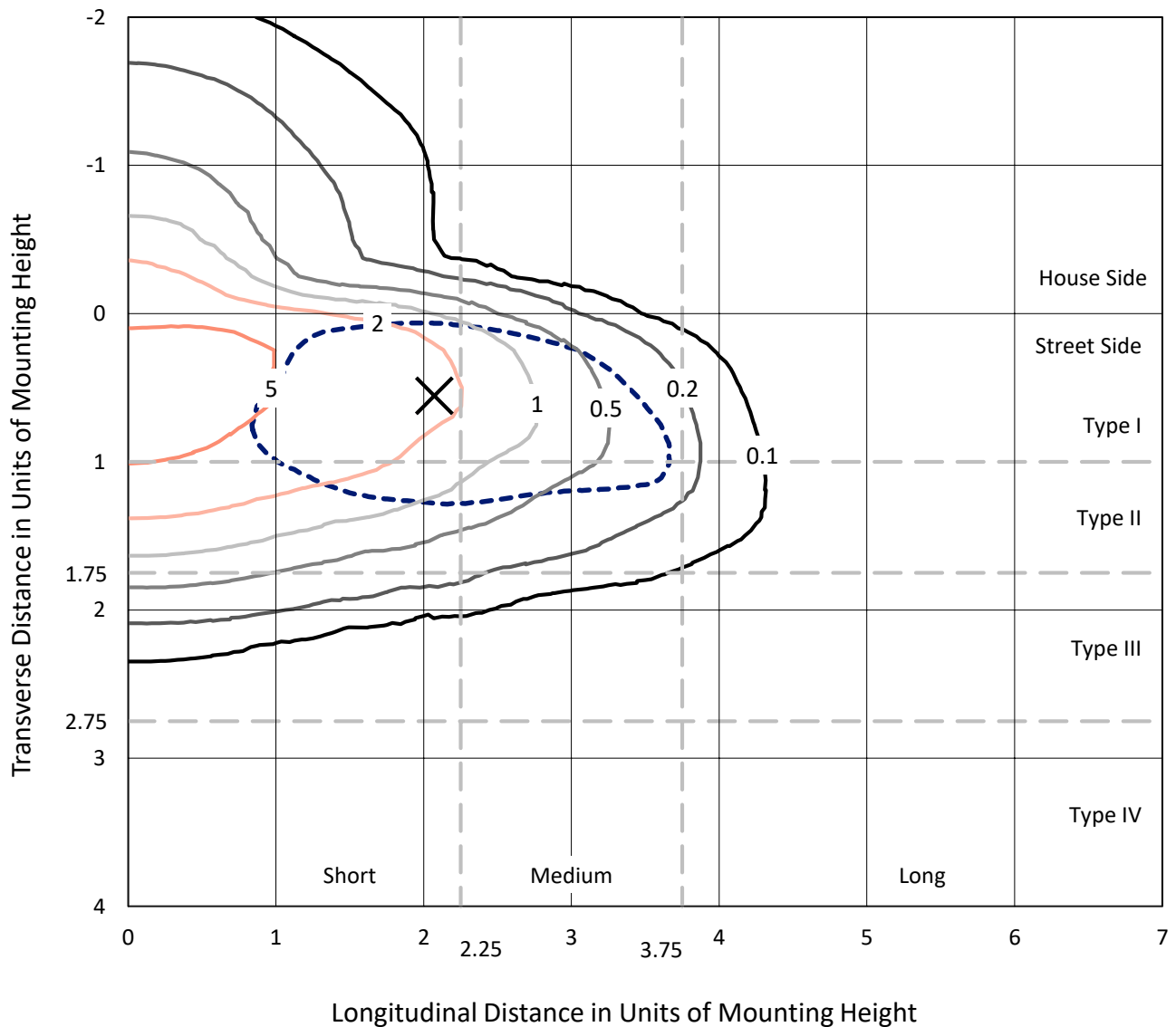
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

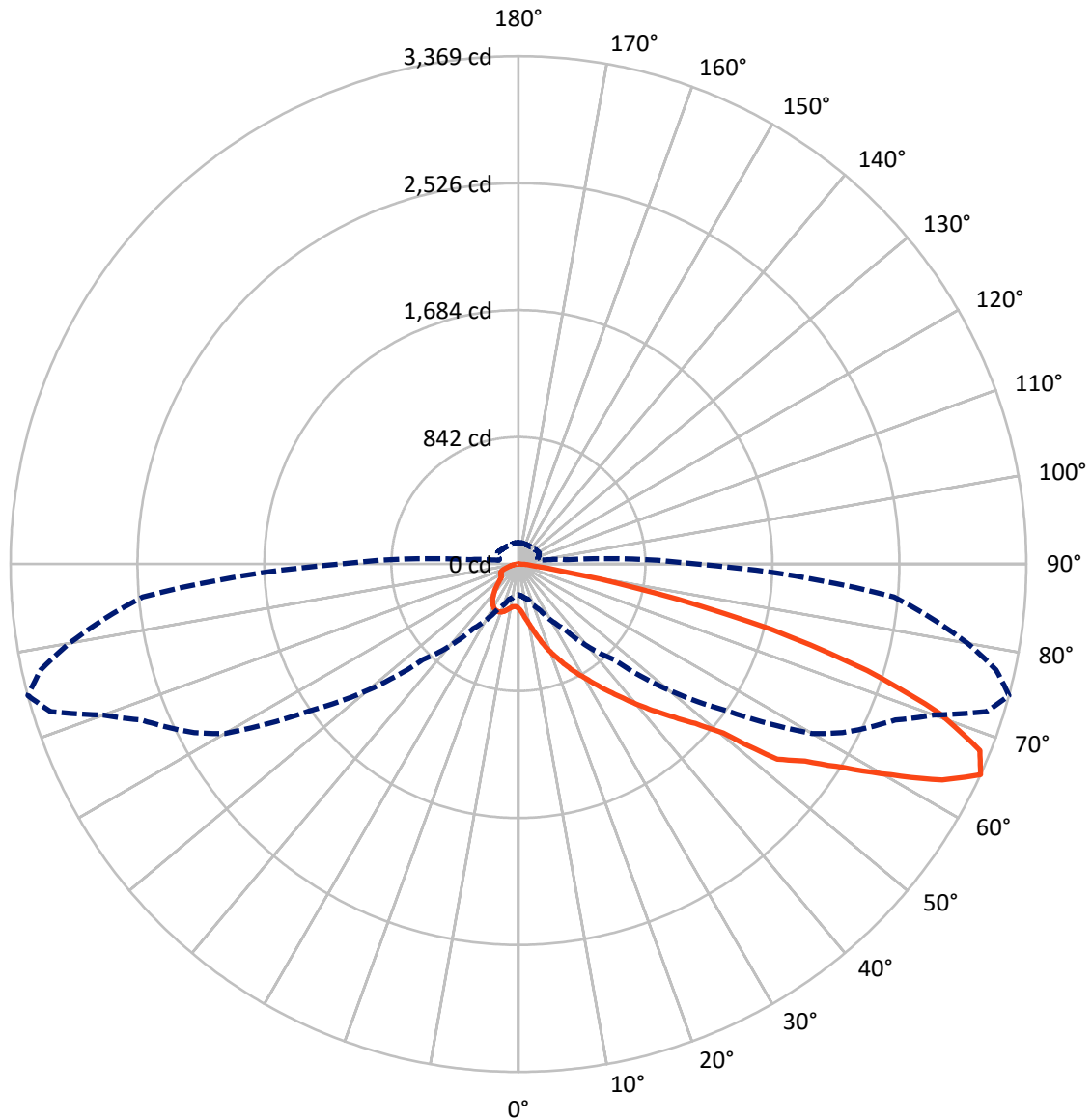
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	512.1	0.0	512.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	2895.9	0.0	2895.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	3408.0	0.0	3408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	1.0
10°-20°	133.1	3.9
20°-30°	268.7	7.9
30°-40°	456.3	13.4
40°-50°	636.5	18.7
50°-60°	780.1	22.9
60°-70°	734.0	21.5
70°-80°	321.8	9.4
80°-90°	42.6	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3408.0	100.0
0°-180°	3408.0	100.0

Coefficient of Utilization



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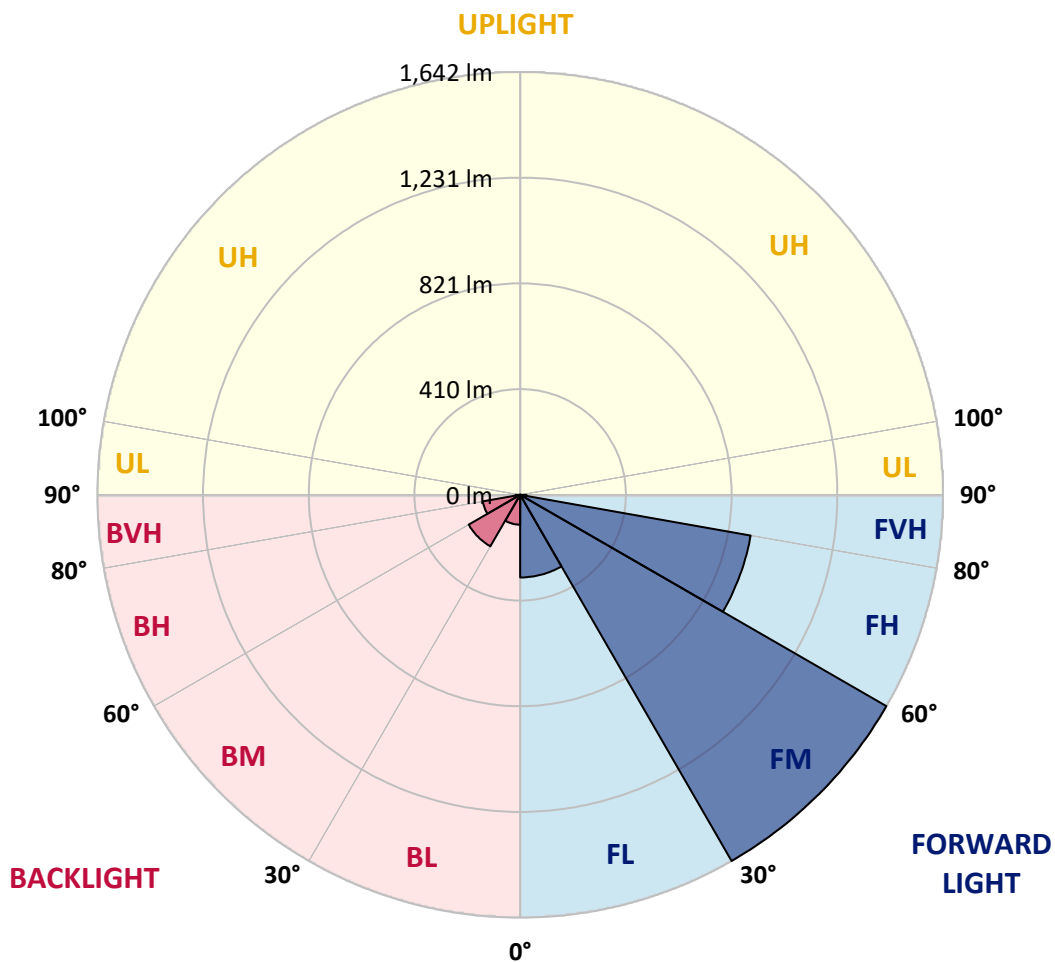
CATALOG NUMBER: XNV-AF-01-LED-U-T2R-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	320.8	9.4			
FM (30°-60°)	1641.8	48.2			
FH (60°-80°)	908.6	26.7			G1/1800
FVH (80°-90°)	24.7	0.7			G1/100
BL (0°-30°)	115.9	3.4	B1/500		
BM (30°-60°)	231.1	6.8	B1/1000		
BH (60°-80°)	147.2	4.3	B1/500		G1/500
BVH (80°-90°)	17.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57.5°	60°	62.5°	65°
0°	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3
2.5°	371.8	367.5	367.9	361.8	353.0	343.2	335.2	330.8	327.2	326.1	320.0
5°	486.3	480.9	478.9	465.0	444.2	419.5	395.0	385.5	377.7	372.9	361.2
7.5°	579.9	577.1	574.5	561.7	541.1	509.5	470.0	455.9	442.9	428.6	414.5
10°	643.7	642.6	641.5	632.6	615.5	588.0	545.5	530.1	513.8	495.6	477.2
12.5°	691.8	691.8	692.7	685.3	674.9	653.7	615.1	600.8	584.3	565.2	544.2
15°	724.1	725.0	729.5	731.7	726.3	712.6	678.8	666.2	650.6	631.8	610.9
17.5°	745.6	747.3	754.0	761.2	768.1	763.4	738.2	726.5	712.4	695.1	675.6
20°	795.4	793.3	793.5	791.3	801.5	805.2	791.3	781.6	770.3	754.5	736.7
22.5°	900.2	896.0	885.4	858.3	846.0	844.7	836.4	831.2	822.5	812.6	794.8
25°	1036.7	1032.0	1010.9	966.3	929.4	895.4	880.2	877.0	871.3	864.6	851.8
27.5°	1177.9	1172.7	1145.6	1089.2	1041.1	972.4	925.1	920.8	915.5	912.7	906.7
30°	1302.1	1296.5	1269.8	1212.6	1154.5	1072.5	985.6	970.4	961.5	962.4	958.9
32.5°	1411.2	1406.2	1376.2	1317.9	1259.0	1179.4	1064.1	1040.4	1020.5	1013.1	1015.7
35°	1502.6	1498.1	1465.4	1406.6	1347.2	1281.1	1165.1	1129.5	1097.0	1076.6	1074.2
37.5°	1556.4	1553.8	1530.8	1481.0	1422.0	1373.4	1278.3	1238.8	1190.9	1161.2	1148.2
40°	1553.4	1556.2	1552.3	1529.7	1484.0	1448.7	1396.2	1357.2	1310.3	1266.1	1239.7
42.5°	1509.1	1513.1	1530.6	1542.3	1530.0	1508.5	1499.2	1470.1	1428.1	1381.2	1344.6
45°	1448.4	1451.9	1474.7	1517.0	1552.3	1558.4	1589.4	1574.8	1539.3	1499.4	1459.1
47.5°	1355.4	1362.2	1388.6	1455.8	1539.9	1598.5	1665.0	1671.7	1651.2	1618.2	1580.5
50°	1220.8	1229.7	1266.8	1362.4	1493.1	1639.7	1777.5	1803.1	1794.9	1761.5	1723.3
52.5°	1082.9	1091.8	1141.2	1242.9	1417.7	1656.6	1888.3	1953.8	2001.1	2035.5	2042.3
55°	939.4	949.4	1003.6	1120.6	1317.1	1635.1	1967.5	2041.8	2089.7	2125.7	2140.3
57.5°	777.4	788.7	841.2	959.6	1174.8	1548.8	2055.5	2160.9	2232.2	2287.7	2318.9
60°	591.6	605.7	660.2	779.4	988.0	1383.6	2094.7	2250.6	2364.0	2447.2	2496.7
62.5°	375.1	389.4	446.0	569.8	775.3	1157.9	1983.7	2211.1	2404.5	2527.7	2618.3
65°	204.7	210.9	242.4	335.6	522.7	898.4	1702.3	1970.5	2249.1	2423.6	2562.8
67.5°	153.5	154.4	157.6	180.4	278.4	606.6	1330.9	1576.6	1885.9	2110.6	2276.8
70°	134.4	134.4	134.8	135.1	151.1	328.7	901.7	1127.8	1411.4	1638.6	1845.2
72.5°	120.5	119.2	118.8	116.2	118.4	168.5	490.8	694.0	933.1	1188.1	1380.8
75°	104.1	103.8	103.8	101.2	102.5	118.6	212.9	333.0	518.4	755.8	945.5
77.5°	90.0	88.5	88.7	87.2	91.3	90.8	101.0	137.2	225.7	397.0	554.4
80°	74.1	73.1	73.7	72.8	79.3	67.2	68.1	83.9	112.1	174.1	245.4
82.5°	54.9	55.3	59.4	59.0	66.8	45.3	49.9	62.7	75.4	86.7	94.3
85°	32.1	32.7	42.7	44.9	49.0	23.8	30.6	37.3	42.1	46.6	48.6
87.5°	3.5	4.6	23.8	24.5	21.9	7.2	12.4	15.6	16.7	17.8	15.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	67.5°	70°	72.5°	75°	77.5°	80°	85°	90°	95°	100°	102.5°
0°	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3
2.5°	318.0	315.2	312.2	310.5	307.4	304.8	300.1	296.1	291.8	288.8	287.5
5°	355.3	348.6	341.5	336.3	329.8	324.1	313.3	300.3	296.1	287.5	285.3
7.5°	403.9	391.8	379.6	369.6	358.4	349.0	330.8	307.4	304.4	290.5	287.5
10°	460.9	443.1	425.1	409.8	393.3	379.0	352.1	319.1	315.9	298.1	295.1
12.5°	524.7	503.0	479.8	456.8	437.3	417.1	380.5	337.3	332.1	311.1	307.0
15°	590.3	566.9	540.1	512.3	488.2	461.6	415.4	361.2	351.7	326.9	321.3
17.5°	655.2	629.8	601.6	570.6	542.4	510.6	453.1	387.9	371.4	342.5	335.4
20°	717.8	692.0	662.3	632.0	596.9	560.4	491.7	414.1	388.9	355.6	346.2
22.5°	774.8	752.7	723.0	688.1	652.6	611.6	530.9	440.3	404.3	365.5	353.6
25°	834.9	814.7	785.3	751.6	710.2	664.7	571.5	465.3	416.7	370.9	356.2
27.5°	895.6	878.3	850.5	815.2	770.7	720.2	612.7	488.2	426.7	372.7	354.9
30°	960.4	947.0	921.4	881.9	837.1	781.1	657.6	510.8	433.0	370.3	349.0
32.5°	1021.8	1021.3	998.6	957.6	909.3	847.7	704.8	533.5	436.2	363.6	338.9
35°	1085.5	1094.4	1077.3	1038.3	987.3	919.0	757.1	557.8	436.4	351.7	325.6
37.5°	1157.9	1173.8	1166.2	1129.1	1075.5	1000.3	818.4	585.1	435.1	335.2	306.3
40°	1240.3	1262.0	1261.8	1230.6	1173.3	1091.4	889.7	615.7	432.1	314.6	283.6
42.5°	1334.6	1360.4	1367.6	1336.8	1278.9	1190.9	971.5	649.3	427.3	294.2	259.5
45°	1442.6	1465.4	1478.8	1450.2	1392.1	1299.3	1065.4	687.5	421.5	268.0	232.0
47.5°	1558.1	1584.6	1604.8	1580.3	1518.3	1422.9	1176.6	736.7	419.3	238.0	202.3
50°	1701.5	1728.8	1772.3	1761.3	1727.2	1650.5	1411.8	852.9	420.2	209.6	177.3
52.5°	2057.0	2119.7	2174.7	2150.2	2069.4	1937.8	1603.0	917.5	401.9	186.4	160.0
55°	2164.3	2235.4	2316.7	2306.5	2228.9	2096.2	1754.1	971.5	384.4	169.5	148.7
57.5°	2352.1	2436.0	2549.6	2547.4	2452.2	2302.9	1948.6	1036.1	376.8	159.8	143.1
60°	2550.9	2657.8	2814.7	2839.2	2735.8	2580.4	2178.4	1115.4	377.9	154.4	139.8
62.5°	2696.1	2852.9	3081.2	3154.4	3032.6	2861.3	2416.9	1194.8	371.4	148.1	135.9
65°	2705.0	2930.7	3254.6	3368.6	3245.3	3025.2	2501.0	1179.2	332.4	139.6	129.6
67.5°	2488.2	2782.2	3175.7	3300.8	3174.6	2924.2	2353.6	1030.9	270.1	124.9	118.8
70°	2072.4	2413.6	2822.1	2961.5	2857.2	2603.8	2048.3	823.4	201.8	105.4	102.5
72.5°	1601.5	1919.8	2290.7	2419.7	2339.9	2117.1	1615.6	600.1	144.2	85.4	83.3
75°	1144.9	1415.9	1685.2	1734.4	1655.7	1451.0	1048.2	374.8	101.0	70.0	67.0
77.5°	708.9	885.2	981.9	918.6	818.2	680.1	426.7	185.1	67.2	57.0	54.0
80°	314.6	369.2	344.7	307.2	242.6	199.5	130.3	82.2	43.4	44.0	42.3
82.5°	105.8	111.9	108.8	108.2	97.6	85.4	55.3	35.6	24.3	28.2	27.5
85°	51.6	54.0	54.2	56.2	48.8	37.9	15.0	14.1	10.4	15.2	15.8
87.5°	15.6	15.8	14.3	15.6	12.6	8.7	2.8	3.9	2.0	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	105°	107.5°	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°
0°	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3
2.5°	285.1	284.2	282.7	281.0	280.5	278.4	277.7	276.6	276.0	274.9	274.0
5°	282.5	281.0	279.2	277.3	277.3	274.3	273.0	271.7	271.7	269.7	268.8
7.5°	285.1	283.1	281.2	279.5	280.1	276.6	275.3	274.0	273.8	271.9	271.0
10°	292.5	290.5	288.1	286.4	285.7	282.9	281.4	279.5	278.2	276.9	275.6
12.5°	303.7	301.1	298.1	294.4	292.9	290.5	288.1	285.5	282.5	281.2	279.2
15°	317.2	312.8	308.7	304.2	300.1	297.7	294.4	290.3	286.2	284.4	281.8
17.5°	328.2	323.7	317.8	312.4	305.0	303.1	298.5	293.5	286.8	286.2	282.3
20°	337.6	330.6	323.5	317.0	305.7	304.6	299.0	293.1	283.6	283.6	278.8
22.5°	342.8	333.2	324.8	316.1	302.0	301.1	294.6	287.7	276.0	276.4	270.6
25°	343.6	332.1	321.5	311.1	294.8	293.3	285.1	277.5	264.7	263.8	257.8
27.5°	340.2	326.7	314.4	301.8	284.2	281.0	271.9	262.8	250.2	248.0	241.5
30°	332.1	316.3	302.4	287.9	269.5	264.3	254.7	245.4	232.6	229.8	223.7
32.5°	319.3	301.4	286.0	271.4	251.1	244.6	235.0	225.7	213.3	211.2	205.5
35°	302.4	282.3	266.0	250.6	230.2	223.5	214.4	206.2	194.9	194.0	190.1
37.5°	281.2	260.2	242.8	228.1	208.8	205.3	196.0	189.9	180.6	181.5	179.5
40°	257.1	235.7	219.2	206.2	189.5	186.4	180.8	176.3	168.2	170.6	170.8
42.5°	232.8	211.4	196.4	184.7	170.4	168.5	164.6	162.0	155.9	160.6	162.6
45°	205.3	185.4	172.6	163.7	153.1	153.1	151.1	150.9	146.8	153.5	155.4
47.5°	178.6	163.0	154.1	148.7	141.4	144.8	144.2	145.9	142.9	149.8	151.5
50°	158.5	147.6	142.2	139.6	134.4	139.8	141.1	143.5	140.9	147.0	148.3
52.5°	145.7	138.5	135.5	134.8	131.2	137.9	140.1	142.2	139.2	144.8	144.6
55°	138.5	133.8	132.7	134.0	131.2	137.7	139.8	141.4	138.8	142.7	142.4
57.5°	135.9	133.3	134.0	135.9	134.0	139.4	140.5	142.2	139.6	141.4	142.2
60°	135.7	135.7	138.3	140.9	139.6	143.5	144.2	144.0	141.6	141.8	142.2
62.5°	134.4	137.7	142.0	146.1	145.7	150.5	150.9	148.1	146.1	144.0	143.3
65°	130.3	135.7	142.0	147.6	148.5	155.9	156.7	153.9	152.6	148.9	146.1
67.5°	121.2	128.1	135.5	142.4	144.0	153.9	155.9	157.0	157.6	155.2	151.5
70°	105.8	113.0	120.5	128.6	130.7	141.8	145.9	150.9	154.8	158.3	157.0
72.5°	86.1	92.6	99.1	106.4	109.7	121.2	126.6	135.3	141.4	150.2	153.9
75°	68.3	72.2	76.1	80.6	83.3	94.5	101.2	111.7	119.9	132.2	140.5
77.5°	53.8	55.7	57.7	59.6	60.7	67.0	72.4	82.8	92.4	108.0	120.1
80°	41.4	42.5	42.7	43.4	42.9	46.0	47.9	54.2	62.4	77.8	92.1
82.5°	26.7	27.5	28.0	29.1	26.9	30.8	32.1	32.7	37.1	48.3	58.5
85°	15.0	15.2	15.4	15.8	12.8	16.7	16.9	15.8	15.4	19.9	22.5
87.5°	3.7	3.5	3.7	3.7	1.5	3.5	3.5	2.4	1.7	3.3	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	295.3	295.3	295.3	295.3	295.3	295.3
2.5°	272.1	271.7	271.9	270.8	270.4	270.6
5°	267.7	266.9	266.9	266.2	265.4	265.4
7.5°	269.7	268.0	267.3	266.0	264.7	264.9
10°	272.7	269.7	267.5	265.6	264.1	264.1
12.5°	274.7	269.3	266.0	263.4	261.7	261.7
15°	275.1	266.9	262.1	259.3	257.6	257.6
17.5°	272.5	262.1	256.0	252.4	250.4	250.8
20°	266.0	253.2	246.1	242.2	240.2	240.4
22.5°	255.8	241.1	232.8	228.3	226.3	226.3
25°	241.9	225.9	217.0	213.3	211.6	211.6
27.5°	226.1	209.6	201.8	199.0	197.9	197.9
30°	208.3	194.7	189.1	187.1	185.4	185.4
32.5°	193.4	183.6	181.7	179.1	174.5	174.3
35°	181.5	180.4	178.9	171.1	164.6	163.7
37.5°	175.0	181.5	171.9	158.5	153.3	153.1
40°	171.5	177.6	161.1	154.6	153.9	153.9
42.5°	163.3	167.6	160.4	156.7	156.7	157.0
45°	154.6	158.3	162.0	158.7	159.8	160.0
47.5°	148.5	155.9	162.0	159.1	161.3	162.6
50°	142.9	153.7	158.7	158.7	161.1	161.3
52.5°	141.6	150.7	155.7	158.0	158.3	157.2
55°	141.8	148.3	153.3	156.3	155.0	155.0
57.5°	141.6	147.0	151.3	152.4	153.1	153.1
60°	141.8	145.3	148.7	148.3	150.5	150.5
62.5°	142.4	142.9	144.6	144.2	147.4	147.4
65°	144.0	139.8	138.8	139.2	143.1	142.9
67.5°	146.8	135.7	132.2	132.5	138.1	137.2
70°	150.9	130.1	124.9	123.6	133.1	131.6
72.5°	152.2	123.6	115.3	114.0	119.7	115.3
75°	146.1	118.4	105.1	100.8	98.4	97.1
77.5°	130.3	115.1	94.5	85.4	81.7	80.9
80°	108.0	108.4	80.6	69.8	81.1	80.9
82.5°	81.5	93.7	64.6	60.5	58.8	49.0
85°	39.5	70.5	49.6	41.6	24.9	23.6
87.5°	3.5	29.5	28.6	18.6	8.5	8.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

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